

of computers and being structured to be  
controllable by an external apparatus based on a  
TCP/IP protocol, the unauthorized access avoiding  
program for an intelligent interconnecting device  
5 comprising:

a first step of causing the intelligent  
interconnecting device to judge whether or not a  
first access to the intelligent interconnecting  
device from outside has occurred;

10 a second step of causing the intelligent  
interconnecting device to carry out authentication  
processing by using a user identifier and a  
password based on  
the TCP/IP protocol when it is judged in said first  
15 step that the first access from outside has  
occurred;

a third step of causing the intelligent  
interconnecting device to judge after the  
authentication processing in said second step  
20 whether or not authentication is given;

a fourth step of determining an authenticated  
external apparatus as an apparatus to be responded  
to thereafter by the intelligent interconnecting  
device and causing the intelligent interconnecting  
25 device to judge whether or not this access is the

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first access, when it is judged in said third step that the authentication is given;

a fifth step of causing the intelligent interconnecting device to extract and store a source IP address included in a packet which is received from the external apparatus in the authentication processing when this access of the external apparatus is judged to be the first access in said fourth step;

a sixth step of determining the external apparatus as an apparatus not to be responded to thereafter by the intelligent interconnecting device when the external apparatus is judged not to be authenticated in said third step;

a seventh step of causing the intelligent interconnecting device to judge whether or not the source IP address of the external apparatus giving the access thereto is identical with the stored source IP address when this access is judged not to be the first access in said first step;

an eighth step of determining the external apparatus whose source IP address is judged to be identical with the stored source IP address as an apparatus to be responded to thereafter by the intelligent interconnecting device and causing the

intelligent interconnecting device to process the steps beginning from said second step, when the source IP address of the external apparatus is judged to be identical with the stored source IP address in said seventh step; and

a ninth step of determining the external apparatus whose source IP address is judged to be nonidentical with the stored source IP address as an apparatus not to be responded to thereafter by the intelligent interconnecting device when the source IP address of the external apparatus is judged to be nonidentical with the stored source IP address in said seventh step.

7. An unauthorized access avoiding program which is executed in an intelligent interconnecting device having a function of repeating a packet which is transmitted/received between a plurality of computers and being structured to be controllable by an external apparatus based on a TCP/IP protocol, the unauthorized access avoiding program for an intelligent interconnecting device comprising:

a first step of causing the intelligent interconnecting device to judge whether or not a